

Listing of Claims

The following listing of claims replaces all prior versions of the claims in the application.

1. (Currently Amended) A drive-by-wire assembly for a motor vehicle comprising, in combination;

a pedal configured to retain its original shape and undergo no substantial deformation when engaged by a foot of a user; and user;

a strain gauge secured to the pedal and configured to provide an output signal based on a force applied to the pedal by a foot of a user; and

an electronic control unit configured to receive the output signal from the strain gauge and provide a control signal.

2. (Original) The drive-by-wire assembly of claim 1, wherein the pedal is an accelerator pedal.

3. (Original) The drive-by-wire assembly of claim 1, wherein the pedal is a brake pedal.

4. (Original) The drive-by-wire assembly of claim 1, wherein the pedal is a clutch pedal.

5. (Original) The drive-by-wire assembly of claim 1, wherein the pedal comprises an arm having a first end and a second end, and a footpad secured to the first end, the second end being secured to a mounting member.

6. (Original) The drive-by-wire assembly of claim 5, wherein the mounting member is configured to be secured to a front of dash of a vehicle.

7. (Original) The drive-by-wire assembly of claim 6, wherein the strain gauge is secured to the arm of the pedal.

8. (Original) The drive-by-wire assembly of claim 6, wherein the strain gauge is secured to the mounting member.

9. (Canceled)

10. (Original) The drive-by-wire assembly of claim 1, further comprising a false feedback member connected to the pedal and configured to provide resistance to foot of a user, the strain gauge being secured to the false feedback member.

11-22. (Canceled)

23. (New) The drive-by-wire assembly of claim 1, wherein the control signal is transmitted to a throttle assembly.

24. (New) The drive-by-wire assembly of claim 1, wherein the control signal is transmitted to a brake system.